ITT Aerospace Controls Division
ITT Fluid Technology Corporation

2166-06476

December 7, 1993

Mr. Gregg Kwey
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, California 91754-2156

WELL INVESTIGATIONS PROGRAM - SUPPLEMENTARY SUBSURFACE INVESTIGATION (FILE NO. 104.0582)

Dear Mr. Kwey:

Enclosed please find three copies of ITTs "Annual Well Maintenance Program", prepared by ENVIRON Corporation.

This work plan was prepared in response to a request outlined in your letter of June 29, 1993. As stated in your letter, "An ongoing well maintenance program must be developed to ensure the integrity of all monitoring wells. Wells should be redeveloped as needed to remove excessive and/or accumulated sediments in the bottom of wells. All surface seals must be maintained and well covers replaced as needed."

The enclosed work plan is designed to maintain the existing wells in good working order. Existing wells include a total of eight ground water wells designated PW-1 through PW-6, SW-1 and SW-2. If approved, maintenance of these wells will be conducted on an annual basis, beginning with January, 1994. Ground water monitoring wells currently being installed both on- and off-site will not require inclusion in this program until January, 1995.

At this time we are requesting LARWQCB review and approval of this work prior to actual implementation. Should you have any questions or comments, please feel free to contact me at (818) 953-2119.

Very Truly Yours,

Teresa P. Olmsted
Manager, Environmental Projects

cc: A. Veloz - LARWQCB
P. Kani - LAFD
ITT Distribution
LARWQCB file
LAFD file

enclosure
RWQ12793

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ANNUAL WELL MAINTENANCE PROGRAM

ITT Fluid Products Corporation
Aerospace Controls Division
Burbank, CA

ENVIRON

ANNUAL WELL MAINTENANCE PROGRAM

ITT Fluid Products Corporation
Aerospace Controls Division
Burbank, CA

Prepared for

ITT Fluid Products Corporation
Burbank, CA

Prepared by

ENVIRON Corporation
Irvine, CA

December 6, 1993

ANNUAL WELL MAINTENANCE PROGRAM

The scope of work presented in this plan has been designed to maintain the existing ground water monitoring wells in good working order at and around the ITT facility located at 1200 South Flower Street, in Burbank, California. Proper ground surface protection and waterproofing will be maintained as well as dedicated pump maintenance and well development. The objective of this program is to ensure that the monitoring wells yield as representative samples of ground water as possible. A written record of the annual maintenance inspection will be maintained. All work associated with this maintenance program shall be conducted in accordance with the site specific health and safety plan.

A. WELL HEAD PROTECTION/MAINTENANCE

1. Inspect concrete pad

The concrete pad around the well head will be visually inspected for any signs of damage, cracking, or settlement. If necessary, the damaged portions will be removed with a pry bar and/or jackhammer and new concrete poured and finished.

2. Inspect steel well head cover

The traffic-rated well head cover will be visually inspected for any signs of damage. The rubber gasket and cover seal surfaces will be examined and cleaned. If broken or cracked, the rubber gasket will be replaced. The well head cover retaining bolts will be cleaned with a wire brush and a lightly coated with oil as a rust inhibitor.

3. Inspect dedicated well casing cap

The Well Wizard cap will be visually inspected for damage. The hose connections will be inspected, cleaned, and tightened or replaced as necessary.

4. Inspect monitoring well casing

The integrity of the PVC well casing will be visually examined.

B. DEDICATED PUMPS

1. Remove dedicated pumps

The dedicated purge and sample pumps will be removed from the monitoring wells for inspection. The pumps and hoses will be coiled neatly on plastic sheeting or in a large tub to prevent cross contamination with the ground surface.

2. Inspect pumps and hoses

The pumps and hoses will be visually examined for any cracks, holes, and/or foreign matter such as biological slime. Any damage will be repaired. If dirty, the pumps and hoses will be scrubbed with a Alconox detergent wash and brush. After cleaning, the pumps and hoses will be rinsed with potable and distilled water.

3. Disassemble pumps and inspect

The purge and bladder pumps will be disassembled and inspected for proper operation. All parts will be cleaned with the Alconox wash described above. Particular attention will be paid to the pump bladder and check valves. Defective or questionable parts will be repaired or replaced.

4. Reassemble pumps and test

The reassembled pump and hose will be tested for proper operation in a 5-gallon bucket of potable water prior to installation in the monitoring well. All connections will be examined for leakage and proper operation will be verified.

5. Reinstall pumps in wells

The pumps and hoses will be reinstalled in the wells. Care will be taken to avoid any cross contamination and gloves will be worn by field personnel. The dedicated well cover will be properly seated on the well casing so as not to interfere with the surveyed water level measuring point.

C. WELL DEVELOPMENT

1. Measure total depth of well

After the pumps are removed, an electronic water sounder will be used to measure the total depth of the well. The recorded depth will be compared to the

original total depth measured after installation. The amount of sediment accumulated in the well will be calculated by subtracting the two measurements.

2. **Develop the well**

Each well will be re-developed using a combination of surge block, bailing, or pumping techniques. A surge block will be used along the entire saturated portion of the well screen. After surging, the total well depth will be measured. All accumulated sediment will be removed using either a bailer or pump. If significant sediment is produced after the initial surging, additional surging will be completed until minimal to no sediment is produced. The well will be developed until it yields water with a turbidity value of less than 5 NTUs. All removed sediment and ground water will be placed in DOT-approved containers, properly labelled, and temporarily stored on site pending proper disposal.

ENVIRON

Counsel in Health and Environmental Science